Calendar Planner for UbD 4th Grade Unit (4 weeks)
Operations & Algebraic Thinking: Understanding patterns, functions and coordinate plane

Week - Review and Extensions: Patterns, Functions and Coordinate Plane					
Action	Monday	Tuesday	Wednesday	Thursday	Friday
Essential & Topical Question	Review of extending nonnumeric and numeric patterns and determining a rule for a function table;	Review graphing and equation or a function on a coordinate grid.	What do you want to learn, make, present in regards to Patterns, Functions or Coordinate Planes?	Does anyone have any questions or need help? Present questions to the entire class - have the students make recommendations.	How do you feel about what you are going to present? Let's do a word splash. What do you see?
Learning Plan	Look at projects and things created the first week when patterns and functions were introduced. Review how things were created, what would they do differently. Game show format for review.	Look at projects and things created the first week when coordinate planes were introduced. Review how things were created, what would they do differently. Game show format for review.	Students will determine if they would like to work alone or with a partner. Must be something that can be done in two class periods. Will provide reasonable materials.	Students will spend time needed to complete and presentations will begin. Students will need to present teacher with a plan before they start.	Students will present their projects to class. Time will be determined by number of groups that have formed.
Assessment	Check to make sure students can extend the non-numerical pattern correctly. Check to make sure student recognizes both operations.	Check to make sure students can recognize the rule of a function. Check to make sure students move right first then up when using horizontal and vertical movement for plotting points.	Students will spend the class period planning and executing ideas. They will be assessed on using time wisely, working a group and coming up with a preliminary plan.	Students will spend the class period executing ideas. They will be assessed on using time wisely, working in a group, finalization of plan and respectful input for others.	Students will evaluate each others projects with a rubric they have created.
Comments, Extensions & Reflections	Have students thinking of any other possible questions.	Have students think about patterns, functions and coordinate planes and what they might want to create.	Remind students to bring in any supplies that they need or to request so the teacher can bring them in.	Remind students to bring in any supplies that they need or to request so the teacher can bring them in.	Projects will be displayed in the classroom. Possibly invite the principal in to view.